



KLEINFELDER

An employee owned company

Steve D.

May 1, 2006
File No. 58281-002

Mr. Cliff Ives
Sonoma County Environmental Health Division
475 Aviation Boulevard, Suite 220
Santa Rosa, CA 95403

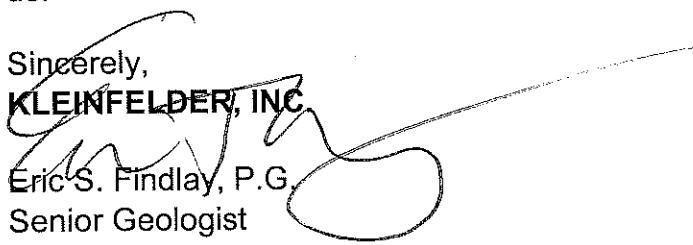
**Subject: First Quarter 2006 Groundwater Monitoring Report
Former California Highway Patrol Facility
3854 Santa Rosa Avenue, Santa Rosa, CA 95401**

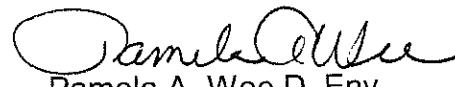
Dear Mr. Ives:

Attached is a report describing the results of groundwater sampling performed by Kleinfelder March 2 and 3, 2006 at the former California Highway Patrol facility in Santa Rosa, California (currently Enterprise Rent-A-Car). Five monitoring wells were sampled during this event (MW-1 through MW-5). The objective of the work was to reinstate quarterly sampling of the groundwater monitoring well network at the former CHP site, and to provide baseline analytical data prior to implementation of Kleinfelder's *Remedial Action Plan (RAP)*. The RAP was submitted to Sonoma County Environmental Health Division (SCEHD) in July 2005 and approved with modifications in September 2005.

The attached report, depth-to-water measurements and laboratory data have been submitted electronically through Geotracker, in accordance with electronic submittal of information (ESI) regulations adopted by the State Water Resources Control Board (SWRCB). A copy of the report has also been submitted to California Regional Water Quality Control Board (CRWQCB) for their review and comments.

If you have any questions or need any additional information, please do not hesitate to call us.

Sincerely,
KLEINFELDER, INC.

Eric S. Findlay, P.G.
Senior Geologist


Pamela A. Wee D. Env.
Project Manager

Cc: Mr. A.K. Jain
State of California
Department of General Services
RESD/PSB/Seismic & Special Programs
707 3rd Street, Suite 4-430
West Sacramento, CA 95605

Ms. Ligaya Reyes-Ibanez
California Highway Patrol
Facilities Section
860 Stillwater Road
West Sacramento, CA 95605

Mr. Luis Rivera
North Coast
Regional Water Quality Control Board
5550 Skyline Blvd., Suite A
Santa Rosa, CA 95403



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Mr. A.K. Jain
State of California
Department of General Services
RESD/PSB/Seismic & Special Programs
707 3rd Street, Suite 4-430
West Sacramento, CA 95605

**Subject: First Quarter 2006 Groundwater Monitoring Report
Former California Highway Patrol Facility
3854 Santa Rosa Avenue
Santa Rosa, CA 95401**

Dear Mr. Jain:

This report describes the results of March 2006 groundwater sampling performed by Kleinfelder at the California Highway Patrol facility in Santa Rosa, California. Five groundwater monitoring wells (MW-1 through MW-5) were sampled on March 2 and 3, 2006 as requested by Sonoma County Environmental Health Division (SCEHD).

BACKGROUND

The former CHP facility is located at 3854 Santa Rosa Avenue, Santa Rosa, California (Plate 1). The site is currently leased by Enterprise Rent-A-Car, with the former CHP building being used as the office. A 12,000-gallon unleaded gasoline underground storage tank (UST) and associated equipment were removed from the site on December 3, 1991. The UST was located north of the building. Two confirmation soil samples were collected from the excavation. Based on petroleum hydrocarbons detected in one of the soil samples, SCEHD requested additional investigation of soil and groundwater impact at the site. To date, 10 borings have been advanced at the site. Seven of the 10 borings (MW-1 through MW-7) were converted to groundwater monitoring wells. Wells MW-1 through MW-3 were installed in 1992. The remaining four wells (MW-4 through MW-7) were installed in 1994.

During the installation of the monitoring wells, groundwater was encountered between 10 and 15 feet bgs. Historically, static water levels have ranged from 5 to 11 feet bgs. Groundwater gradient direction has varied from south-southwest to south-southeast.

TPH as gasoline, benzene, toluene, ethylbenzene, total xylenes, and fuel oxygenates have been detected in the groundwater at the site. Historically, the highest concentrations of TPH gasoline have been detected in MW-2, approximately 20 feet southwest (downgradient) of the former UST. The highest concentration of TPH gasoline in MW-2 was detected in September 1992 at 70,000 micrograms per liter (ug/L) or parts per billion (ppb).

Beginning in March 2000, the five fuel oxygenates were added to the list of analyses. MTBE has been detected in wells MW-1, MW-3, and MW-4. The highest concentrations of MTBE have been detected in MW-3, located adjacent and southwest (downgradient) of the former UST and pump island. The highest concentration of MTBE in MW-3 was detected in October 2000 at 47 ug/L. MTBE concentrations in MW-3 have steadily decreased to 5.6 ug/L during the April 2001 monitoring event.

Kleinfelder submitted a remedial action plan (RAP) to Sonoma County in July 2005 (*Kleinfelder's Remedial Action Plan*, July 28, 2005). The RAP included plans to resume quarterly sampling of monitoring wells MW-1 through MW-5. Offsite wells MW-6 and MW-7 were not included in the sampling due to their history of non-detects and distance from the planned remediation system. The plan was approved with a few modifications and comments in September 2005. The modifications were outlined in a letter from Mr. Cliff Ives, SCEHD (September 30, 2005). Beginning with the March 2006 sampling, Mr. Ives requested that the following chemicals be included in future analyses of groundwater samples with the noted maximum reporting limits in parts per billion (ppb or ug/L):

- Hexavalent chromium (5 ppb)
- Bromide (1,000 ppb)
- Molybdenum (20 ppb)
- Selenium (5 ppb)
- Vanadium (3 ppb)
- Bromate (5 ppb)

FIELD ACTIVITIES

In a letter dated February 10, 2006, SCEHD requested that quarterly monitoring of five wells (MW-1 through MW-5) be resumed immediately. In response to that letter, Kleinfelder conducted sampling of the wells on March 2 and 3, 2006.

Groundwater Levels

On March 3, 2006, Mr. Ryan Padgett, Kleinfelder geologist, measured the depth to groundwater in the five monitoring wells (MW-1 through MW-5) with a conductivity-based water level indicator. The monitoring well locations are shown on Plate 2. The water level indicator was cleaned prior to use in each well to reduce the potential for cross-contamination. Measurements were made to the surveyed mark on the north rim on top of the monitoring well PVC casings. Monitoring well construction details and survey data are presented in Table 1.

The water level measurements were converted to elevations using the surveyed casing elevation information obtained from previous consultant reports. Measurements and elevations are presented in Table 2. Groundwater elevations throughout the site differed by approximately 0.64 feet, ranging from 97.51 (MW-1) to 96.87 (MW-3) feet mean sea level (MSL). The March 3, 2006 gradient direction was approximately south, with a gradient of approximately 0.004 ft/ft. A groundwater elevation contour map for March 3, 2006 is shown on Plate 3.

Monitoring Well Sampling

Following depth-to-groundwater measurements groundwater samples were collected from monitoring wells MW-1 through MW-5. The sampling protocol for each monitoring well was as follows:

- The volume of water in gallons standing in the well was calculated by subtracting the depth-to-groundwater measurement from the known depth to the well bottom and multiplying by the cross-sectional inside area of the well casing.
- A transparent single-use disposable bailer was lowered approximately halfway into the surface of the water standing in the well and then withdrawn to check for a petroleum layer or sheen on the water.
- A minimum of three well volumes of water was then purged from each well using a single-use disposable bailer. A new disposable bailer was used to purge each well, and a new disposable bailer was used to sample each well.
- Samples were collected after purging by decanting samples from the disposable bailer directly into bottles provided by the analytical laboratory.

No sheen, product or odor were observed in four of the five wells. An odor was observed in well MW-2. Some silt was observed in the samples. Field parameters were recorded on sample logs, along with the time and volume of water purged at each measurement. The pH and conductivity meters were calibrated at the beginning of each sample day. Copies of Kleinfelder's well sampling logs are included in Appendix A. Purge water was contained in a 55-gallon drum and left on site pending analytical results and subsequent removal.

LABORATORY ANALYSES

Water samples from monitoring wells MW-1 through MW-5 were submitted for laboratory analyses. The samples were transferred under chain-of-custody documentation to a representative of Kiff Analytical Laboratory in Davis, California. Kiff is certified by the State of California for the analyses performed. The samples were analyzed for:

- TPH Purgeable (gasoline range)
- BTEX (benzene, toluene, ethylbenzene, and total xylenes)
- Five fuel oxygenates (MTBE, TAME, TBA, DIPE, and ETBE)
- Hexavalent Chromium
- Bromide
- Molybdenum
- Selenium
- Vanadium
- Bromate

Analytical results for the first quarter 2006 sampling are presented in Table 3. Copies of the chain-of-custody form and analytical laboratory report are included in Appendix B. Analytical results and water level measurements were submitted through Geotracker to the State Water Resources Control Board UST Program – AB2886 (Electronic Reporting). The confirmation numbers for Geotracker submittals are presented in Appendix C.

FINDINGS

- TPH purgeable as gasoline was not detected above laboratory reporting limits in four wells (MW-1, MW-3, MW-4 and MW-5).
- TPH purgeable as gasoline was detected in MW-2 at 32,000 ug/L.
- Benzene, toluene, ethylbenzene and total xylenes (BTEX) were not detected above laboratory reporting limits in four wells (MW-1, MW-3, MW-4 and MW-5).
- Benzene was detected in MW-2 at 4,300 ug/L.
- Toluene was detected in MW-2 at 1,000 ug/L.
- Ethylbenzene was detected in MW-2 at 1,600 ug/L.
- Total Xylenes were detected in MW-2 at 3,400 ug/L.
- MTBE was not detected above laboratory reporting limits in three wells (MW-1, MW-2, and MW-5).
- MTBE was detected in MW-3 and MW-4 at 1.0 ug/L and 1.5 ug/L, respectively.

- DIPE, ETBE and TAME were not detected above laboratory reporting limits in the five wells (MW-1 through MW-5).
- TBA was not detected in three wells (MW-1, MW-3 and MW-4).
- TBA was detected in MW-2 and MW-5 at 260 ug/L and 18 ug/L, respectively.
- Hexavalent chromium, selenium and bromate were not detected in the five wells (MW-1 though MW-5).
- Bromide was not detected above laboratory reporting limits in MW-1.
- Bromide was detected in MW-2, MW-3, MW-4 and MW-5 at 440 ug/L, 260 ug/L, 390 ug/L and 230 ug/L, respectively.
- Molybdenum was not detected above laboratory reporting limits in MW-1.
- Molybdenum was detected in MW-2, MW-3, MW-4 and MW-5 at 7.06 ug/L, 1.89 ug/L, 4.74 ug/L and 4.11 ug/L, respectively
- Vanadium was detected in MW-1, MW-2, MW-3, MW-4 and MW-5 at 46.4 ug/L, 9.41 ug/L, 63.6 ug/L, 20.5 ug/L and 15.1 ug/L, respectively.

CONCLUSIONS AND RECOMMENDATIONS

The March 2006 sampling marked the resumption of quarterly sampling of the groundwater monitoring network. Additionally, sample results will be used to establish a reference from which to gauge the effect of the ozone sparge remediation system.

Monitoring well MW-2 is the most significantly impacted well within the groundwater monitoring well network. Kleinfelder's RAP appears to be consistent with the current (March 2006) groundwater monitoring results.

The next quarterly sampling event is scheduled for June 2006.

LIMITATIONS

This Report may be used only by the client and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both on- and off- site) or other factors may change over time, and additional work may be required. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else, unless specifically agreed to in advance by Kleinfelder in writing will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

If you have any questions or need additional information, please do not hesitate to contact us.

Sincerely,

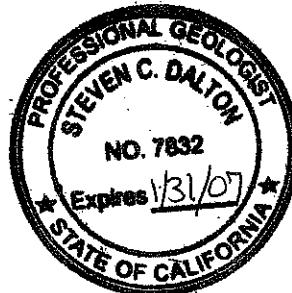
KLEINFELDER, INC.



Sue Gardner
Staff Geologist



Steven C. Dalton, P.G.
Project Geologist



Plates

- Plate 1 – Site Location Map
- Plate 2 – Site and Monitoring Well Location Map
- Plate 3 – Groundwater Elevation and Contour Map

Tables

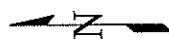
- Table 1 – Monitoring Well Construction Details
- Table 2 – Depth to Groundwater and Groundwater Elevations
- Table 3 – Summary of Analytical Results

Appendices

- A Kleinfelder Field Observation Sheet, Sample Data Sheet, and Purge Characterization and Sample Logs
- B Laboratory Analytical Reports and Chain-of-Custody Form
- C Confirmation For Geotracker Submittal

Plates

Former CHP Facility
3854 Santa Rosa Avenue
Santa Rosa, CA



3600 1800 0 3600
APPROXIMATE SCALE (feet)

KLEINFELDER

SITE VICINITY MAP

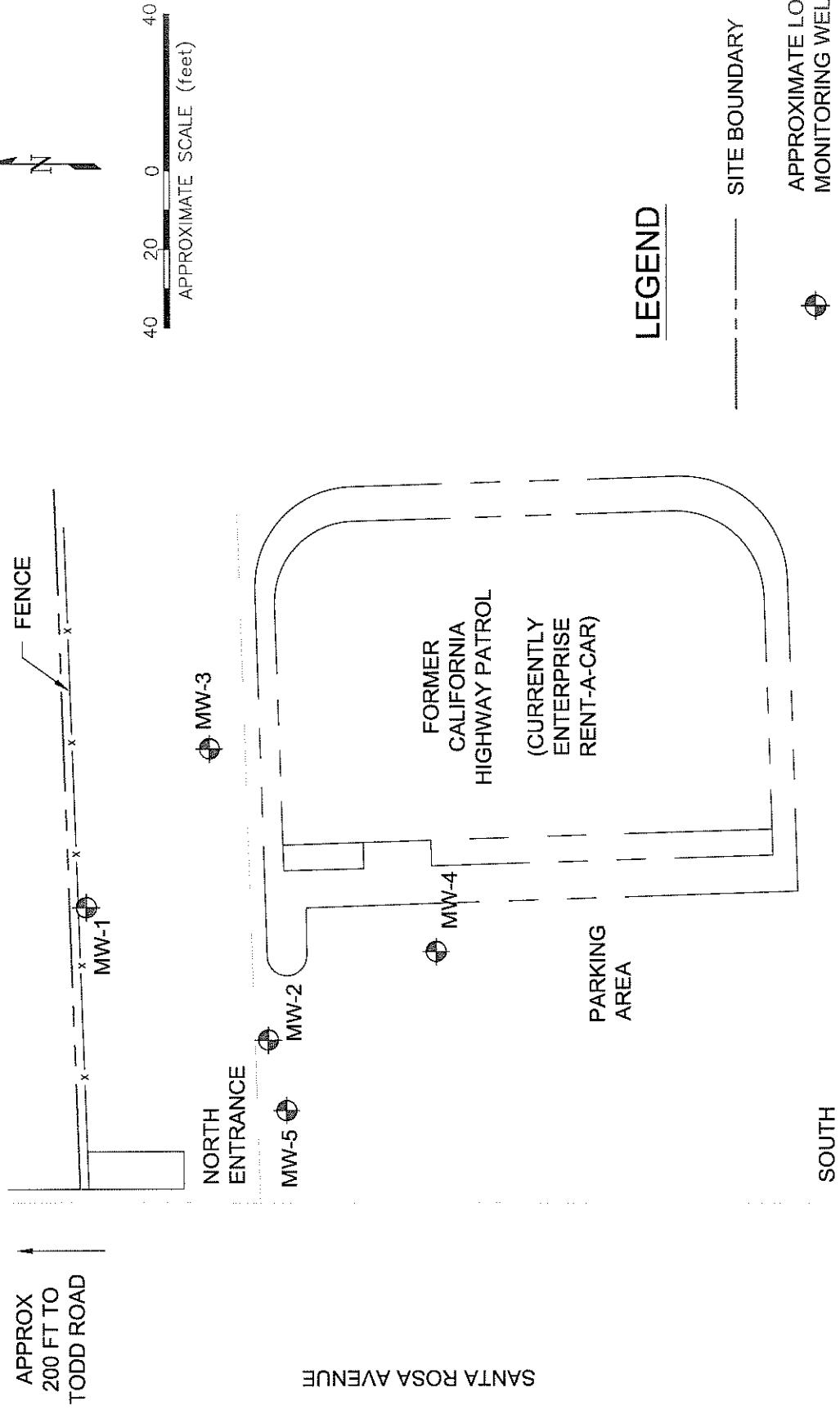
FORMER CHP FACILITY
3854 SANTA ROSA AVENUE
SANTA ROSA, CALIFORNIA



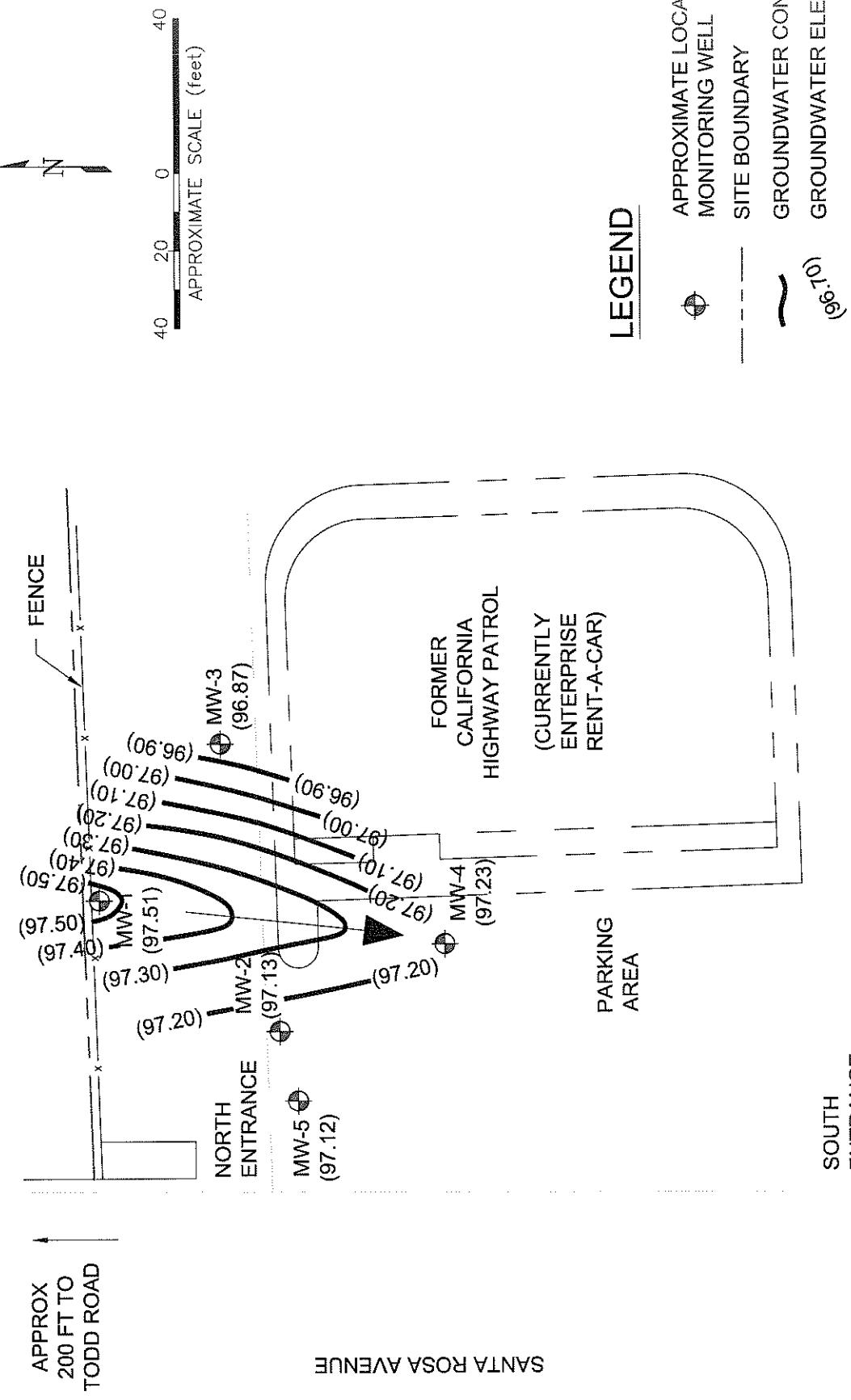
Drawn By: RLH Date: 4-25-2006
Project No.: 58281 Filename: 58281-pl1

PLATE

1



SITE AND MONITORING WELL LOCATION MAP		PLATE
KLEINFELDER	FORMER CHP FACILITY 3854 SANTA ROSA AVENUE SANTA ROSA, CALIFORNIA	2
Drawn By: RLH Project No.: 58281	Date: 4-25-2006 Filename: 58281_pl2	



KLEINFELDER		GROUNDWATER ELEVATION AND CONTOUR MAP MARCH 3, 2006 FORMER CHP FACILITY 3854 SANTA ROSA AVENUE SANTA ROSA, CALIFORNIA	
Drawn By: RLH Project No.: 58281	Date: 4-25-2006 Filename: 58281_p13	PLATE 3	

Tables

Table 1
Monitoring Well Construction Details
Former California Highway Patrol Facility
3854 Santa Rosa Avenue (Enterprise Rent-a-Car)
Santa Rosa, California 95401
Kleinfelder Project No.: 58281-002

Well Number	*TOC (MSL)	TOP (MSL)	BOP (MSL)	Total Depth (BGS)	Casing Diameter (inches)	Packing Material	Screen Size (inches)
MW-1	100.93	91.43	76.43	24.5	2	#3 sand	0.020
MW-2	100.75	91.25	76.25	24.5	2	#3 sand	0.020
MW-3	101.12	92.12	76.12	25	2	#3 sand	0.020
MW-4	100.88	93.88	75.88	25	2	#3 sand	0.020
MW-5	100.39	94.39	75.39	25	2	#3 sand	0.020

Notes:

MSL Mean Sea Level

TOC Top of Casing, relative to local MSL (feet)

TOP Top of Perforation, relative to local MSL (feet)

BOP Bottom of Perforation, relative to local MSL (feet)

BGS Below Ground Surface (feet)

* Well construction details and TOC elevations were obtained from

Table 2
Depth to Groundwater and Groundwater Elevations
Former California Highway Patrol Facility
3854 Santa Rosa Avenue (Enterprise Rent-a-Car)
Santa Rosa, California 95401
Kleinfelder Project No.: 58281-002

Well Location	MW-1	MW-2	MW-3	MW-4	MW-5
Well Casing Elevation	100.93	100.75	101.12	100.88	100.39
March 3, 2006					
Depth to Groundwater	3.42	3.62	4.25	3.65	3.27
Groundwater Elevation	97.51	97.13	96.87	97.23	97.12

Depth (feet) to groundwater measured from the top of well casing (TOC).

Elevations are feet above Mean Sea Level (MSL).

TOC elevations were obtained from previous consultants reports. MW-1 through MW-3 from Jaykin Engineers, Inc. "Site Assessment Report", October 12, 1992. MW-4 through MW-7 from Emcon Associated "Site Characterization Report", August 1994.

Table 3
Summary of Groundwater Analytical Results
Former California Highway Patrol Facility
3854 Santa Rosa Avenue (Enterprise Rent-A-Car)
Santa Rosa, California 95401
Kleinfelder Project No.: 58281 - 002

Well Id	Sample Date	TPH - Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	DPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)
MW-1	3/2/2006	ND (50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (5.0)
MW-2	3/3/2006	32,000	4,300	1,000	1,600	3,400	ND (10)	ND (10)	ND (10)	ND (10)	260
MW-3	3/2/2006	ND (50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	1.0	ND (0.50)	ND (0.50)	ND (0.50)	ND (5.0)
MW-4	3/2/2006	ND (50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	1.5	ND (0.50)	ND (0.50)	ND (0.50)	ND (5.0)
MW-5	3/3/2006	ND (50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	18

Well Id	Sample Date	Hexavalent Chromium (ug/L)	Bromide (ug/L)	Molybdenum (ug/L)	Selenium (ug/L)	Vanadium (ug/L)	Bromate (mg/L)
MW-1	3/2/2006	ND (1.0)	ND (100)	ND (1.00)	ND (1.0)	46.4	ND (0.001)
MW-2	3/3/2006	ND (1.0)	440	7.06	ND (1.0)	9.41	ND (0.005)
MW-3	3/2/2006	ND (1.0)	260	1.89	ND (1.0)	63.6	ND (0.001)
MW-4	3/2/2006	ND (1.0)	390	4.74	ND (1.0)	20.5	ND (0.001)
MW-5	3/3/2006	ND (1.0)	230	4.11	ND (1.0)	15.1	ND (0.005)

ND Concentration was not detected above laboratory reporting limit (reporting limit shown in parenthesis).

ug/L Micrograms per liter (parts per billion).

mg/L Milligrams per liter (parts per million).

{ Concentration was not detected above the laboratory reporting limit shown.

Appendix A

KLEINFELDER
FIELD OBSERVATION DATA SHEET

PROJECT NO. 58261

EMPLOYEE(S) NO. 5107

Location No.	Date			Military Time	Code Number*	Measurement	Alt. Mslt. (product)	Comments
	M	D	Y					
1 MW-1	3	2	06	10 45	0	3.65		
2 MW-1	3	2	06	10 46		24.16		TOTAL DEPTH
3 MW-3	3	2	06	10 50	0	4.50		
4 MW-3	3	2	06	10 50		23.97		TOTAL DEPTH
5 MW-4	3	2	06	10 57	0	3.91		
6 MW-11	3	2	06	10 57		24.61		TOTAL DEPTH
7 MW-1	3	3	06	9 30	0	3.42		
8 MW-2	3	3	06		0	3.62		
9 MW-3	3	3	06		0	4.25		
10 MW-4	3	3	06		0	3.65		
11 MW-5	3	3	06		0	3.27		
12 MW-5	3	3	06	10 00		24.49		TOTAL DEPTH
13 MW-7	3	3	06	10 10		2A.00		TOTAL DEPTH
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

* Code

- | | |
|---------------------------------------|-----------------------------------|
| 0 Depth Water, Feet (TCC) | 27 pH, Water Sample |
| 1 Water Level Elevation, Feet (MSL) | 28 pH, Probe (Lowered into Well) |
| 2 Depth Water, Feet (Cristy Box) | 29 Air Temperature (°C) |
| 3 Depth Water/Product, Feet (TCC) | 30 Water Temperature (°C) |
| 4 Water/Product Elevation, Feet (MSL) | 31 Residual Chlorine |
| 5 Depth Water/Product, Feet (Cristy) | 32 Dissolved Oxygen, mg/l |
| 6 Oil Flow Rate, GPM | 33 Specific Conductance, umhos/cm |
| 7 Cumulative Oil, Gallons | 34 Nitrogen as Ammonia, mg/l |
| 20 Pumping Depth, Feet | 35 Nitrate Nitrogen, mg/l |
| 21 Pumping Rate, GPM | 36 Precipitation, Inches/Day |
| 22 Pressure, PSI | 39 Cumulative Gallons |
| 23 Flow Rate, GPM | 40 Cumulative Acre-Feet |
| 24 Stream Flow, CFS | 57 Residual Vacuum |
| 60 Volume, mL | 58 Reset Vacuum (in centibars) |

SAMPLE DATA SHEET

KLEINFELDER

Project Name CHP Shuts Rosa

Project No. 58261

P.O. No.

Sampler Name, No.

CHAIN-OF-CUSTODY #

PURGE CHARACTERIZATION AND SAMPLE LOG

Project Number: 58281

Project Name: CHP Santa Rosa

Well Number: MW-1

Sampler: Ryan Padgett

Date: 3/2/2006
Weather: Overcast —
Cloudy

Military Time	Units	1110	1117	1227	1131	1135
Gallons Purged	gallons	0	4	88	10	12
Purge Rate	gal/min	bail	bail	bail	bail	bail
pH	pH units	s	7.15	6.79	6.74	6.75
Conductivity	umhos/cm	t	333	374	392	389
Temperature	°C	a	62.4 °F	64.5	63.8	61.5
Turbidity	NTU's	r	N/A	N/A	N/A	N/A
mV	t	N/A	N/A	N/A	N/A	N/A
Redox / ORP	-	300	500	900	900	900
Color	feet	3.65	4.95	6.75	7.10	7.65
Water Level Casing*	feet	3.65				

*Depth to ground water from top of casing

KLEINFELDER

Page:

100000

PIIRGE CHARACTERIZATION AND SAMPLE LOG

Project Number: 58281

Date: 3/2/2006

3/2/2006

3/2/2006

Project Name: CHP Santa Rosa

Well Number: MW-2

Weather: Overcast

Sampler: Ryan Padgett

Military Time	Units	1100	1109	1115	1123	1126
Gallons Purged	gallons	0	4	8	(2)	21
Purge Rate	gal/min	bail	bail	bail	bail	bail
pH	pH units	s	6.866	6.32	6.34	6.32
Conductivity	umhos/cm	t	1136	1138	1139	1148
Temperature	°F	a	65.1	61.2	63.6	64.3
Turbidity	NTU's	r	N/A	N/A	N/A	N/A
Redox / ORP	mV	t	N/A	N/A	N/A	N/A
Color	-	UNR	GRN	GRN	GRN	GRN
Water Level Casing*	feet	3.62	9.65	11.54	9.45	10.15

*Depth to groundwater from top of casing

Comments: $24.90 - 3.62 = 21.28 \times 0.175 = 3.724 \neq 3 = 11.17$

B1/BGF CHARACTERIZATION AND SAMPLE LOG

Page: 1

Project Number: 58281

Project Name: CHP Santa Rosa

Well Number: MW-3

Date: 3/2/2006 Weather: Overcast

Military Time

Military Time	Units	1315	1328	1334	1339	1342
Gallons Purged	gallons	0	44	66	100	120
Purge Rate	gal/min	bail	bail	bail	bail	bail
pH	pH units	s	7.90	7.44	7.29	7.30
Conductivity	umhos/cm	t	956	960	976	968
Temperature	°C	a	62.9	62.5	62.3	62.0
Turbidity	NTU's	r	N/A	N/A	N/A	N/A
Redox / ORP	mV	t	N/A	N/A	N/A	N/A
Color	-	Brown	Brown	Brown	Brown	Brown
Water Level Casing*	feet	4.50	5.99	6.50	7.10	7.60

**Downdip to groundwater from top of casing

Comments: $23.97 - 4.50 = 19.47 \times 0.175$ golf/c = 3.41 and $\times 3 = 10.23$

PURGE CHARACTERIZATION AND SAMPLE LOG

Project Number: 58281

Project Name: CHP Santa Rosa

Well Number: MW-4

PURGE CHARACTERIZATION AND SAMPLE LOG

Project Number: 58281

Project Name: CHP Santa Rosa

Well Number: MW-5

Sampler: Ryan Padgett

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No. River Rottet T1 / 5107
Project No. 58281

Date 3/2/06
Job Name Off-Site Survey - Densit.

pH Meter (make/number)

	Time	Temp.	pH4	pH7	pH10	Reading (initial)	1413-umho	1000	10000	
Reading (initial)	07:50	65.3	3.30	7.55	9.65	1510	973	9520	9520	
Calibration (initial)		65.6	3.99	6.98	9.99	1415	1001	9990	9990	
Reading (intermediate)						Reading (intermediate)				
Calibration (intermediate)						Calibration (intermediate)				
Reading (end of day)	16:50	66.2	3.96	6.99	10.01	Reading (end of day)	1520	963	9760	Comments:

EC Meter (make/number)

	Reading (initial)	Calibration (initial)	Reading (intermediate)	Calibration (intermediate)	Reading (end of day)

Turbidity Meter (make/number)

	NTU	NTU	NTU	Battery Check	Hg in inches	Hg in mm
Reading (initial)					Weather Service	
Calibration					Reading (initial)	
					Reading (adj.)	

D.O. Meter (make/number)

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Ryan Probst / S107

S6241

Date 3/3/06
Job Name CHP Shallow

Ryan Probst / S107

S6241

pH Meter (make/number)

	Time	Temp.	pH4	pH7	pH10	EC Meter (make/number)
Reading (initial)	0730	67.5	4.36	6.93	10.07	1413-umho
Calibration (initial)	0731	67.9	4.02	7.02	10.02	1413-umho
Reading (intermediate)						9970
Calibration (intermediate)						
Reading (end of day)						

Comments:

EC Meter (make/number)

	Reading (initial)	Calibration (initial)	Reading (intermediate)	Calibration (intermediate)	Reading (end of day)
1413-umho	1422	1413			
9970	998				

D.O. Meter (make/number)

	Reading (initial)	Calibration (initial)	Reading (adj.)
Hg in inches			
Hg in mm			

Turbidity Meter (make/number)

	NTU	NTU	NTU	Battery Check
Weather Service				
Reading (initial)				
Calibration				

Appendix B

KLEINER FELDER

486 92



Report Number : 48692

Date : 3/7/2006

Steve Dalton
Kleinfelder, Inc.
3077 Fite Circle
Sacramento, CA 95827

Subject : 3 Water Samples
Project Name : CHP SANTA ROSA
Project Number : 58281

Dear Mr. Dalton,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 48692

Date : 3/7/2006

Project Name : CHP SANTA ROSA

Project Number : 58281

Sample : MW-1

Matrix : Water

Lab Number : 48692-01

Sample Date : 3/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/3/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/3/2006
Toluene - d8 (Surr)	97.7		% Recovery	EPA 8260B	3/3/2006
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	3/3/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 48692

Date : 3/7/2006

Project Name : CHP SANTA ROSA

Project Number : 58281

Sample : MW-3

Matrix : Water

Lab Number : 48692-02

Sample Date : 3/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Methyl-t-butyl ether (MTBE)	1.0	0.50	ug/L	EPA 8260B	3/3/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/3/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/3/2006
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	3/3/2006
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	3/3/2006

Approved By:  Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 48692

Date : 3/7/2006

Project Name : CHP SANTA ROSA

Project Number : 58281

Sample : MW-4

Matrix : Water

Lab Number : 48692-03

Sample Date : 3/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Methyl-t-butyl ether (MTBE)	1.5	0.50	ug/L	EPA 8260B	3/4/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/4/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/4/2006
Toluene - d8 (Surr)	97.5		% Recovery	EPA 8260B	3/4/2006
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	3/4/2006

Approved By:  Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

QC Report : Method Blank Data

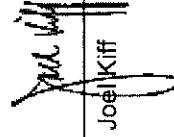
Project Name : CHP SANTA ROSA

Project Number : 58281

Report Number : 48692

Date : 3/7/2006

Parameter	Measured Value	Method Limit	Reporting Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Toluene	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Diisopropyl ether (DPE)	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Ethy-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Ter-t-amyI methyl ether (TAME)	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA B260B	3/3/2006
TPH as Gasoline	< 50	50	ug/L	EPA B260B	3/3/2006
Toluene - d8 (Sur)	98.2		%	EPA B260B	3/3/2006
4-Bromofluorobenzene (Sur)	109		%	EPA B260B	3/3/2006
Benzene	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Toluene	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Diisopropyl ether (DPE)	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Ethy-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Ter-t-amyI methyl ether (TAME)	< 0.50	0.50	ug/L	EPA B260B	3/3/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA B260B	3/3/2006
TPH as Gasoline	< 50	50	ug/L	EPA B260B	3/3/2006
Toluene - d8 (Sur)	97.4		%	EPA B260B	3/3/2006
4-Bromofluorobenzene (Sur)	108		%	EPA B260B	3/3/2006



Approved By:

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 48692

Date : 3/7/2006

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : CHP SANTA ROSA
Project Number : 58281

Parameter	Spiked Sample	Sample Value	Spike Level	Spiked Sample Value	Duplicate Spiked Sample Value	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Relative Percent Diff.
Benzene	48690-02	<0.50	40.0	40.0	39.9	39.1	ug/L	EPA 8260B	3/3/06	99.8	97.8
Toluene	48690-02	<0.50	40.0	40.0	38.7	38.0	ug/L	EPA 8260B	3/3/06	96.7	95.0
Tert-Butanol	48690-02	<5.0	200	200	202	205	ug/L	EPA 8260B	3/3/06	101	102
Methyl-t-Butyl Ether	48690-02	<0.50	40.0	40.0	39.1	38.6	ug/L	EPA 8260B	3/3/06	97.7	96.6
Benzene	48693-09	<0.50	40.0	40.0	41.2	40.4	ug/L	EPA 8260B	3/3/06	103	101
Toluene	48693-09	<0.50	40.0	40.0	39.4	38.5	ug/L	EPA 8260B	3/3/06	98.4	96.3
Tert-Butanol	48693-09	19	200	200	221	221	ug/L	EPA 8260B	3/3/06	101	101
Methyl-t-Butyl Ether	48693-09	300	40.0	40.0	341	338	ug/L	EPA 8260B	3/3/06	93.7	87.7

Approved By:

Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

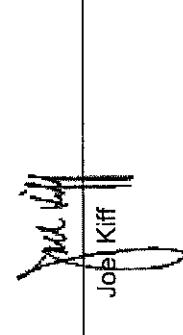
Report Number : 48692

Date : 3/7/2006

QC Report : Laboratory Control Sample (LCS)

Project Name : CHP SANTA ROSA
Project Number : 58281

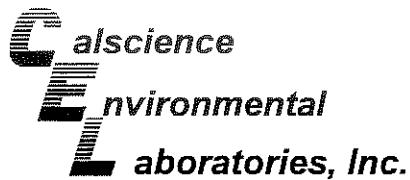
Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	3/3/06	91.9	70-130
Toluene	40.0	ug/L	EPA 8260B	3/3/06	93.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/3/06	96.0	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/3/06	93.9	70-130
Benzene	40.0	ug/L	EPA 8260B	3/3/06	91.0	70-130
Toluene	40.0	ug/L	EPA 8260B	3/3/06	91.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/3/06	95.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/3/06	92.2	70-130



Approved By:

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



LAURENCE
UNIVERSITY
OF CALIFORNIA
DAVIS
CALSCLIENCE
ENVIRONMENTAL
LABORATORIES INC.

March 28, 2006

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 06-03-0178**
Client Reference: **CHP Santa Rosa**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/3/2006 and analyzed in accordance with the attached chain-of-custody.

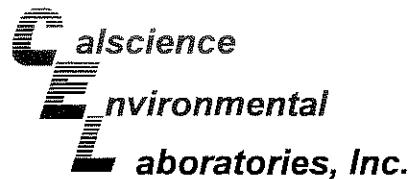
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

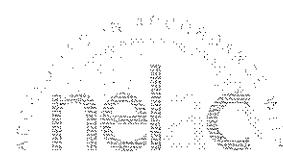
Sincerely,

A handwritten signature in black ink that reads "Stephen Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager



Analytical Report



Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

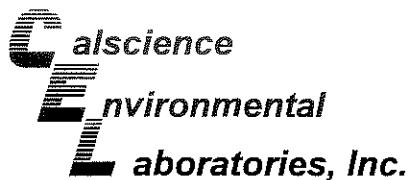
Date Received: 03/03/06
Work Order No: 06-03-0178
Preparation: EPA 3020A Total
Method: EPA 6020
Units: ug/L

Project: CHP Santa Rosa

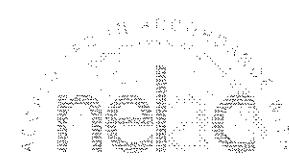
Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID			
MW-1	06-03-0178-1	03/02/06	Aqueous	03/03/06	03/08/06	060303L01			
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Molybdenum	ND	1.00	1		Vanadium	46.4	1.0	1	
Selenium	ND	1.00	1						
MW-3	06-03-0178-2	03/02/06	Aqueous	03/03/06	03/08/06	060303L01			
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Molybdenum	1.89	1.00	1		Vanadium	63.6	1.0	1	
Selenium	ND	1.00	1						
MW-4	06-03-0178-3	03/02/06	Aqueous	03/03/06	03/08/06	060303L01			
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Molybdenum	4.74	1.00	1		Vanadium	20.5	1.0	1	
Selenium	ND	1.00	1						
Method Blank	096-06-003-1,009	N/A	Aqueous	03/03/06	03/08/06	060303L01			
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Molybdenum	ND	1.00	1		Vanadium	ND	1.00	1	
Selenium	ND	1.00	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/03/06
Work Order No: 06-03-0178

Project: CHP Santa Rosa

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-1	06-03-0178-1	03/02/06	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Bromide	ND	100	1		ug/L	N/A	03/03/06	EPA 300.0

MW-3	06-03-0178-2	03/02/06	Aqueous
------	--------------	----------	---------

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Bromide	260	100	1		ug/L	N/A	03/03/06	EPA 300.0

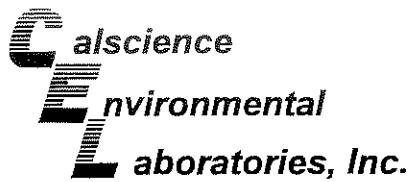
MW-4	06-03-0178-3	03/02/06	Aqueous
------	--------------	----------	---------

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Bromide	390	100	1		ug/L	N/A	03/03/06	EPA 300.0

Method Blank	N/A	Aqueous
--------------	-----	---------

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Bromide	ND	100	1		ug/L	N/A	03/03/06	EPA 300.0

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/03/06
Work Order No: 06-03-0178
Preparation: EPA 3020A Total
Method: EPA 6020

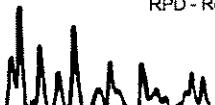
Project CHP Santa Rosa

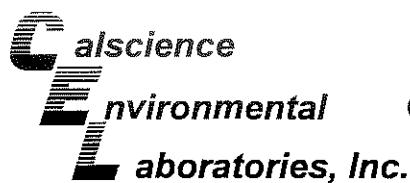
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-4	Aqueous	ICP/MS A	03/03/06	03/08/06	060303S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Molybdenum	112	112	80-120	0	0-20	
Selenium	84	82	80-120	2	0-20	
Vanadium	118	115	80-120	2	0-20	

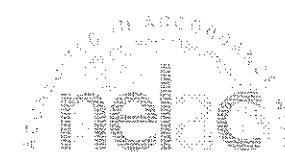
RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate



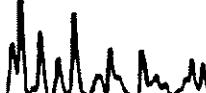
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 06-03-0178

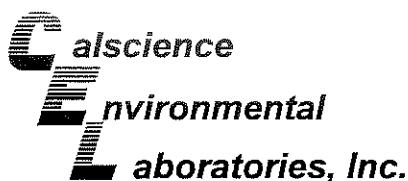
Project: CHP Santa Rosa

Matrix: Aqueous											
Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers	
Bromide	EPA 300.0	06-03-0129-1	03/03/06	N/A	106	102	74-128	4	0-9		

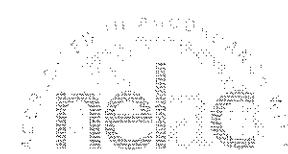
RPD - Relative Percent Difference , CL - Control Limit



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Quality Control - LCS/LCS Duplicate



Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 06-03-0178
Preparation: EPA 3020A Total
Method: EPA 6020

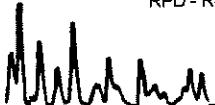
Project: CHP Santa Rosa

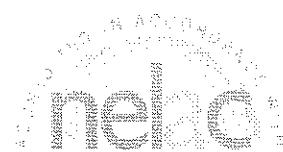
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-1,009	Aqueous	ICP/MS A	03/03/06	03/08/06	060303L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Molybdenum	101	101	80-120	0	0-20	
Selenium	101	101	80-120	0	0-20	
Vanadium	104	104	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

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**Environmental Quality Control - Laboratory Control Sample
Laboratories, Inc.**


Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received:

N/A

Work Order No:

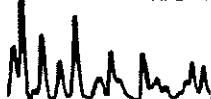
06-03-0178

Project: CHP Santa Rosa

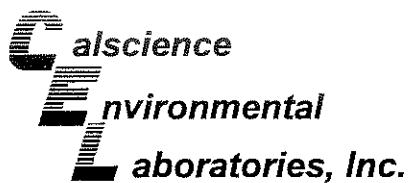
Matrix : Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Bromide	EPA 300.0	099-05-118-3,236	03/03/06	N/A	2.0	1.9	94	85-115	

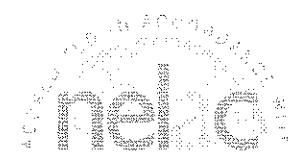
RPD - Relative Percent Difference , CL - Control Limit



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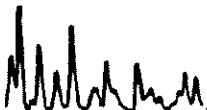


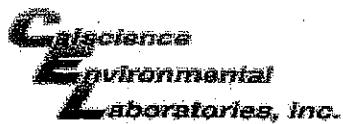
Glossary of Terms and Qualifiers



Work Order Number: 06-03-0178

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





WORK ORDER #:

06 - 0 3 - 0 1 7 Cooler 1 of 1**SAMPLE RECEIPT FORM**CLIENT: KiFFDATE: 3/31/06**TEMPERATURE – SAMPLES RECEIVED BY:****CALSCIENCE COURIER:**

- Chilled, cooler with temperature blank provided.
- Chilled, cooler without temperature blank.
- Chilled and placed in cooler with wet ice.
- Ambient and placed in cooler with wet ice.
- Ambient temperature.
- °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- 3.4 °C Temperature blank.
- °C IR thermometer.
- Ambient temperature.

Initial: JF**CUSTODY SEAL INTACT:**Sample(s): _____ Cooler: No (Not Intact) : _____ Not Applicable (N/A): _____Initial: JF**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>
Correct containers for analyses requested.....	<input checked="" type="checkbox"/>
Proper preservation noted on sample label(s).....	<input checked="" type="checkbox"/>
VOA vial(s) free of headspace.....	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input checked="" type="checkbox"/>

Initial: JF**COMMENTS:**



BSK Submission Number: 2006030304

03/09/2006

Christie Dumas
Kiff Analytical LLC
2795 Second Street Suite 300
Davis, CA 95616



Dear Christie Dumas,

Thank you for selecting BSK Analytical Laboratories for your analytical testing needs. We have prepared this report in response to your request for analytical services. Please find enclosed the following sections for your complete laboratory report, each uniquely paginated:

CASE NARRATIVE: An overview of the work performed.

CERTIFICATE OF ANALYSIS: Analytical results.

REPORT OF SAMPLE INTEGRITY

CHAIN OF CUSTODY FORM

Certification: I certify that this data package is in compliance with NELAC Standards for applicable analyses under NELAC Certificate #04227CA, and is in compliance with ELAP Standards for applicable certified analyses under ELAP Certificate #1180, except for the conditions listed.

If additional clarification of any information is required, please contact your Client Services Representative, Glen Brown, at (800) 877-8310 or (559) 497-2888.

BSK ANALYTICAL LABORATORIES

Glen Brown
Client Services Representative



Case Narrative

BSK Submission Number: 2006030304

SAMPLE AND RECEIPT INFORMATION

The sample(s) was received, prepared, and analyzed within the method specified holding times unless otherwise noted on the Certificate of Analysis. Samples, when shipped, arrived within acceptable temperature requirements of 0° to 6° Celsius unless otherwise noted on the Report of Sample Integrity. Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.

QUALITY CONTROL

All analytical quality controls are within established method criteria except when noted in the Quality Control section or on the Certificate of Analysis. All positive results for EPA Methods 504.1, 502.2, and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed. OC samples may include analytes not requested in this submission.

SAMPLE RESULT INFORMATION

Samples are analyzed as received (wet weight basis) unless noted here. The results relate only to the items tested. Any exceptions to be considered when evaluating these results are also listed here, if applicable. Results contained in this package shall not be reproduced, except in full, without written approval of BSK Analytical Laboratories.

ORDER TEST

ANALYTE

COMMENT



BSK ANALYTICAL LABORATORIES

Christie Dumas
Kiff Analytical LLC
2795 Second Street Suite 300
Davis, CA 95616

BSK Submission #: 2006030304

BSK Sample ID #: 695803

Project ID: 58281

Project Desc: CHP Santa Rosa

Submission Comments:

Sample Type: Liquid

Sample Description: MW-1

Sample Comments:



Report Issue Date: 03/09/2006

Date Sampled: 03/02/2006

Time Sampled: 1135

Date Received: 03/03/2006

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Bromate (BrO ₃)	EPA 317.0	ND	mg/L	0.001	1	0.001	03/06/06	03/06/06

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting
: PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory.
See External Laboratory Report attachments.

Report Authentication Code:



BSK ANALYTICAL LABORATORIES

Christie Dumas
Kiff Analytical LLC
2795 Second Street Suite 300
Davis, CA 95616

BSK Submission #: 2006030304

BSK Sample ID #: 695804

Project ID: 58281

Project Desc: CHP Santa Rosa

Submission Comments:

Sample Type: Liquid

Sample Description: MW-3

Sample Comments:

Certificate of Analysis

NELAP Certificate #04227CA

ELAP Certificate #1180



Report Issue Date: 03/09/2006

Date Sampled: 03/02/2006

Time Sampled: 1342

Date Received: 03/03/2006

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Bromate (BrO3)	EPA 317.0	ND	mg/L	0.001	1	0.001	03/06/06	03/06/06

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting
: PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory.
See External Laboratory Report attachments.



BSK ANALYTICAL LABORATORIES

Christie Dumas
Kiff Analytical LLC
2795 Second Street Suite 300
Davis, CA 95616

BSK Submission #: 2006030304

BSK Sample ID #: 695805

Project ID: 58281

Project Desc: CHP Santa Rosa

Submission Comments:

Sample Type: Liquid

Report Issue Date: 03/09/2006

Sample Description: MW-4

Date Sampled: 03/02/2006

Sample Comments:

Time Sampled: 1238

Date Received: 03/03/2006

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Bromate (BrO ₃)	EPA 317.0	ND	mg/L	0.001	1	0.001	03/06/06	03/06/06



Certificate of Analysis

NELAP Certificate #04227CA

ELAP Certificate #1180

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting
: PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory.
See External Laboratory Report attachments.

Report Authentication Code:



Sample IntegrityPg. 1 of 2

CI

2006030304

03/03/2006

KIFF ANA

TAT: Standard

33049



Date Received

3/3/06

Section 1- Sampled Same Day

Sample Transport: Walk In SJVC BSK-Courier

Transported In: Ice Chest Box Hand

Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / On Ice

Section 2- Sampled Previously

Sample Transport: CAO UPS SJVC Walk-In BSK-Courier GSO Fed Exp. Other:

No. Coolers/Ice Chests:

Temperature(s): 4

Was Temperature In Range Y N

Received On Ice: Wet Blue

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other:

Were ice chest custody seals present? Y N Intact: Y N

Section 3- COC Info.Completed
Yes NoInfo From
ContainerCompleted
Yes NoInfo From
Container

Was COC Received	/	/	Analysis Requested	/	/	
Date Sampled	/	/	Any hold times less than 72hr	/	/	
Time Sampled	/	/	Client Name	/	/	
Sample ID	/	/	Address	/	/	
Special Storage/Handling Ins.	/	/	Telephone #	/	/	

Section 4- Bottles / Analysis

Yes No N/A Comment

Did all bottles arrive unbroken and intact?:	/	/	/	DS 3/4/06
Were bottle custody seals present?:	/	/	/	D.S 3/4/06
Were bottle custody seals intact?:	/	/	/	
Did all bottle labels agree with COC?:	/	/	/	
Were correct containers used for the tests requested?:	/	/	/	
Were correct preservations used for the tests requested?:	/	/	/	
Was a sufficient amount of sample sent for tests indicated?:	/	/	/	
Were bubbles present in VOA Vials?: (Volatile Methods Only)	/	/	/	
Were Ascorbic Acid Bottles received with the VOAs	/	/	/	

Section 5- Comments / DiscrepanciesSample(s) Split/Preserve: Yes No Container: _____ Preservation: _____ Init.: _____Was Client Service Rep. notified of discrepancies: Yes No N/A CSR: _____ Notified By: _____

Explanations / Comments

Report Comment Entered:

KIFF Analytical LLC KIFF Analytical LLC KIFF Analytical LLC KIFF Analytical LLC
CUSTODY SEAL CT 03/03/2006 1900

Sample Integrity Pg 2 of 2

SR-FL-0002-01

BSK Bottles Yes No

2006030304

03/03/2006

KIFF ANA

33049

TAT: Standard

8oz (A) 16oz (B) 32oz (C) Amber Glass (AG)



Container(s) Received	1-3					
Bacti Na ₂ S ₂ O ₃						
None (p) White Cap						
None (p) Blue Cap						
HNO ₃ (p) Red Cap						
H ₂ SO ₄ (p) Yellow Cap						
NaOH (p) Green Cap						
Other:						
Dissolved Oxygen 300ml (g)						
250ml (AG) None						
250ml (AG) H ₂ SO ₄ , COD Yellow Label						
250ml (AG) Na ₂ S ₂ O ₃ 515,547 Blue Label						
250ml (AG) Na ₂ S ₂ O ₃ + MCAA 531.1 Orange Label						
250ml (AG) NH ₄ Cl 552 Purple Label						
250ml (AG) EDA DBPs Brown Label	2					
250ml (AG) Other:						
500ml (AG) None						
500ml (AG) H ₂ SO ₄ TPH-Diesel Yellow Label						
500ml (AG) Other:						
1 Liter (AG) None						
1 Liter (AG) H ₂ SO ₄ O&G Yellow Label						
1 Liter (AG) Na ₂ SO ₃ 525 N-Green Label						
1 Liter (AG) Na ₂ S ₂ O ₃ 548 Blue Label						
1 Liter (P) Na ₂ S ₂ O ₃ + H ₂ SO ₄ 549						
1 Liter (AG) NaOH+ZnAc Sulfide						
1 Liter (AG) Other:						
40ml VOA Vial Clear – HCL						
40ml VOA Vial Amber – Na ₂ S ₂ O ₃						
40ml VOA Vial Clear – None						
40ml VOA Vial Clear - Na ₂ S ₂ O ₃ 504, 505						
40ml VOA Vial Clear – H ₃ PO ₄						
Other:						
Asbestos 1-Liter Plastic/Foil						
Radiological GA / GB (½ Gal Plastic)						
Radiological 226 / 228 (32 oz plastic N-BSK)						
Radon 200ml Clear (g)						
Low Level Hg/Metals Double Baggie						
THM-FP 4-40ml VOA None						
250 Clear Glass Jar						
500 Clear Glass Jar						
1 Liter Clear Glass Jar						
Plastic Bag						
Soil Tube Brass / Steel / Plastic						
Tedlar Bags						

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

March 13, 2006

CLS Work Order #: CPC0091

COC #: N/A

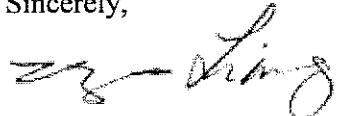
Christie Dumas
KIFF Analytical
2795 Second St. Suite 300
Davis, CA 95616

Project Name: CHP SANTA ROSA

Enclosed are the results of analyses for samples received by the laboratory on 03/02/06 18:00.
Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved
methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

03/13/06 10:33

KIFF Analytical 2795 Second St. Suite 300 Davis, CA 95616	Project: CHP SANTA ROSA Project Number: 58281 Project Manager: Christie Dumas	CLS Work Order #: CPC0091 COC #: N/A
---	---	---

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (CPC0091-01) Water Sampled: 03/02/06 11:35 Received: 03/02/06 18:00									
Hexavalent Chromium	ND	1.0	µg/L	1	CP01598	03/03/06	03/03/06	EPA 7199	
MW-3 (CPC0091-02) Water Sampled: 03/02/06 13:42 Received: 03/02/06 18:00									
Hexavalent Chromium	ND	1.0	µg/L	1	CP01598	03/03/06	03/03/06	EPA 7199	
MW-4 (CPC0091-03) Water Sampled: 03/02/06 12:38 Received: 03/02/06 18:00									
Hexavalent Chromium	ND	1.0	µg/L	1	CP01598	03/03/06	03/03/06	EPA 7199	

CALIFORNIA LABORATORY SERVICES

03/13/06 10:33

KIFF Analytical
2795 Second St. Suite 300
Davis, CA 95616

Project: CHP SANTA ROSA
Project Number: 58281
Project Manager: Christie Dumas

CLS Work Order #: CPC0091
COC #: N/A

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



Report Number : 48708

Date : 3/9/2006

Steve Dalton
Kleinfelder, Inc.
3077 Fite Circle
Sacramento, CA 95827

Subject : 2 Water Samples
Project Name : CHP Santa Rosa
Project Number : 58281

Dear Mr. Dalton,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". Below the signature, the name "Joel Kiff" is printed in a small, black, sans-serif font.



Report Number : 48708

Date : 3/9/2006

Project Name : CHP Santa Rosa

Project Number : 58281

Sample : MW-2

Matrix : Water

Lab Number : 48708-01

Sample Date : 3/3/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	4300	10	ug/L	EPA 8260B	3/4/2006
Toluene	1000	10	ug/L	EPA 8260B	3/4/2006
Ethylbenzene	1600	10	ug/L	EPA 8260B	3/4/2006
Total Xylenes	3400	10	ug/L	EPA 8260B	3/4/2006
Methyl-t-butyl ether (MTBE)	< 10	10	ug/L	EPA 8260B	3/4/2006
Diisopropyl ether (DIPE)	< 10	10	ug/L	EPA 8260B	3/4/2006
Ethyl-t-butyl ether (ETBE)	< 10	10	ug/L	EPA 8260B	3/4/2006
Tert-amyl methyl ether (TAME)	< 10	10	ug/L	EPA 8260B	3/4/2006
Tert-Butanol	260	50	ug/L	EPA 8260B	3/4/2006
TPH as Gasoline	32000	1000	ug/L	EPA 8260B	3/4/2006
Toluene - d8 (Surr)	97.3		% Recovery	EPA 8260B	3/4/2006
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	3/4/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 48708

Date : 3/9/2006

Project Name : CHP Santa Rosa

Project Number : 58281

Sample : MW-5

Matrix : Water

Lab Number : 48708-02

Sample Date : 3/3/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Tert-Butanol	18	5.0	ug/L	EPA 8260B	3/4/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/4/2006
Toluene - d8 (Surr)	97.3		% Recovery	EPA 8260B	3/4/2006
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	3/4/2006

Approved By:  Joel Kiff

Report Number : 48708

Date : 3/9/2006

QC Report : Method Blank Data

Project Name : CHP Santa Rosa

Project Number : 58281

Parameter	Measured Value	Method Limit	Reporting Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Diisopropyl ether (DPE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Tert-amyI methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/3/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/3/2006
Toluene - d8 (Surf)	97.4	%	EPA 8260B	3/3/2006	
4-Bromofluorobenzene (Surf)	108	%	EPA 8260B	3/3/2006	

Parameter	Measured Value	Method Limit	Reporting Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Diisopropyl ether (DPE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Tert-amyI methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/3/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/3/2006
Toluene - d8 (Surf)	97.4	%	EPA 8260B	3/3/2006	
4-Bromofluorobenzene (Surf)	108	%	EPA 8260B	3/3/2006	


Joe Kiff

Approved By:

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 48708

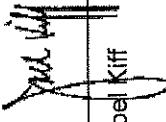
Date : 3/9/2006

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **CHP Santa Rosa**

Project Number : **58281**

Parameter	Spiked Sample	Sample Value	Spike Level	Spiked Sample Value	Duplicate Spiked Sample Value	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Relative Percent Diff. Limit
Benzene	48693-09	<0.50	40.0	40.0	41.2	40.4	3/3/06	103	101	2.08	70-130 25
Toluene	48693-09	<0.50	40.0	40.0	39.4	38.5	3/3/06	98.4	96.3	2.15	70-130 25
Tert-Butanol	48693-09	19	200	200	221	221	3/3/06	101	101	0.179	70-130 25
Methyl-t-Butyl Ether	48693-09	300	40.0	40.0	341	338	3/3/06	93.7	87.7	6.60	70-130 25



Approved By:

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

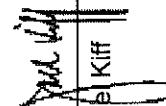
Report Number : 48708

Date : 3/9/2006

QC Report : Laboratory Control Sample (LCS)

Project Name : **CHP Santa Rosa**
Project Number : **58281**

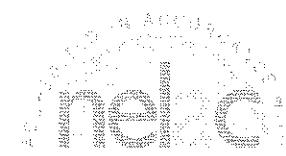
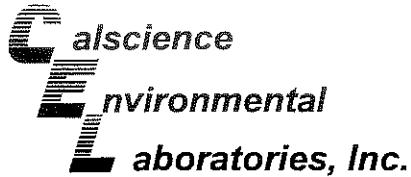
Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	3/3/06	91.0	70-130
Toluene	40.0	ug/L	EPA 8260B	3/3/06	91.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/3/06	95.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/3/06	92.2	70-130


Joe Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:



March 28, 2006

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 06-03-0266**
Client Reference: **CHP SANTA ROSA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/4/2006 and analyzed in accordance with the attached chain-of-custody.

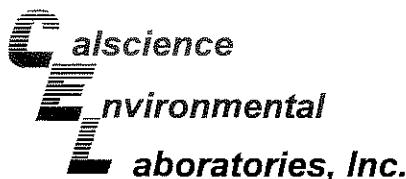
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

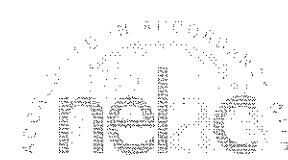
Sincerely,

A handwritten signature in black ink that reads "Stephen Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager



Analytical Report



Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/04/06
Work Order No: 06-03-0266
Preparation: EPA 3020A Total
Method: EPA 6020
Units: ug/L

Project: CHP SANTA ROSA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-2	06-03-0266-1	03/03/06	Aqueous	03/08/06	03/08/06	060308L01

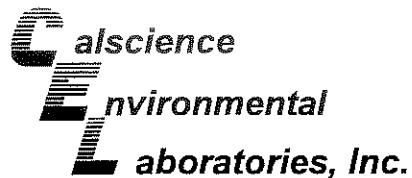
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Molybdenum	7.06	1.00	1		Vanadium	9.41	1.00	1	
Selenium	ND	1.00	1						
MW-5		06-03-0266-2	03/03/06	Aqueous	03/08/06	03/08/06	060308L01		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Molybdenum	4.11	1.00	1		Vanadium	15.1	1.0	1	
Selenium	ND	1.00	1						

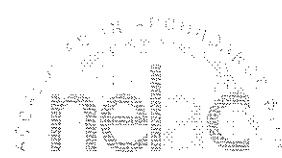
Method Blank	096-06-003-1,010	N/A	Aqueous	03/08/06	03/08/06	060308L01
--------------	------------------	-----	---------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Molybdenum	ND	1.00	1		Vanadium	ND	1.00	1	
Selenium	ND	1.00	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/04/06
Work Order No: 06-03-0266

Project: CHP SANTA ROSA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-2	06-03-0266-1	03/03/06	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Bromide	440	100	1		ug/L	N/A	03/04/06	EPA 300.0

MW-5	06-03-0266-2	03/03/06	Aqueous
------	--------------	----------	---------

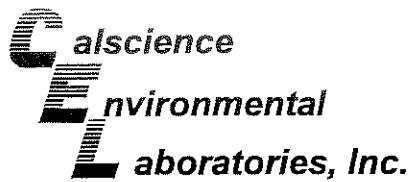
Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Bromide	230	100	1		ug/L	N/A	03/04/06	EPA 300.0

Method Blank		N/A	Aqueous
--------------	--	-----	---------

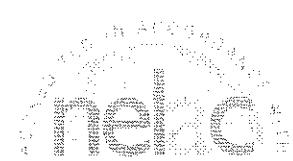
Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Bromide	ND	100	1		ug/L	N/A	03/04/06	EPA 300.0

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Quality Control - Spike/Spike Duplicate



Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

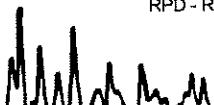
Date Received: 03/04/06
Work Order No: 06-03-0266
Preparation: EPA 3020A Total
Method: EPA 6020

Project CHP SANTA ROSA

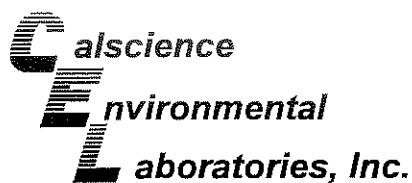
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-2	Aqueous	ICP/MS A	03/08/06	03/08/06	060308S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Molybdenum	105	106	80-120	2	0-20	
Selenium	89	87	80-120	3	0-20	
Vanadium	109	108	80-120	1	0-20	

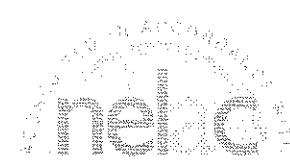
RPD - Relative Percent Difference , CL - Control Limit



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Quality Control - PDS / PDSD



Kiff Analytical Date Received 03/04/06
 2795 2nd Street, Suite 300 Work Order N 06-03-0266
 Davis, CA 95616-6593 Preparation: EPA 3020A Total
 Method: EPA 6020

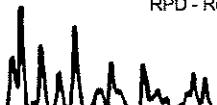
Project: CHP SANTA ROSA

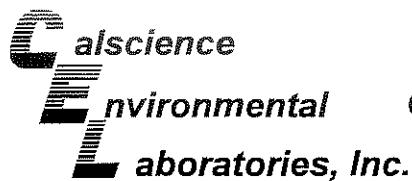
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
MW-2	Aqueous	ICP/MS A	03/08/06	03/08/06	060308S01

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Molybdenum	107	111	75-125	4	0-20	
Selenium	92	92	75-125	0	0-20	
Vanadium	107	112	75-125	4	0-20	

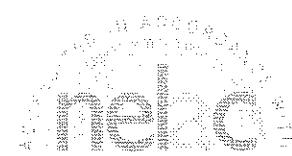
RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate



Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 06-03-0266

Project: CHP SANTA ROSA

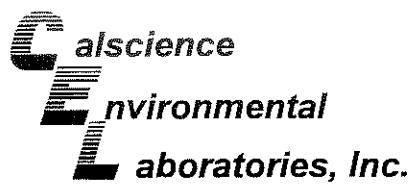
Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Bromide	EPA 300.0	06-03-0257-5	03/04/06	N/A	107	105	74-128	2	0-9	

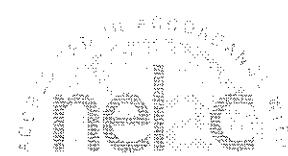
RPD - Relative Percent Difference , CL - Control Limit



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Quality Control - LCS/LCS Duplicate



Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

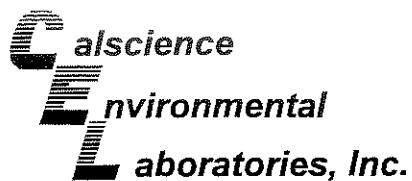
Date Received: N/A
Work Order No: 06-03-0266
Preparation: EPA 3020A Total
Method: EPA 6020

Project: CHP SANTA ROSA

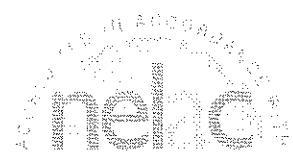
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-1,010	Aqueous	ICP/MS A	03/08/06	03/08/06	060308L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Molybdenum	101	102	80-120	1	0-20	
Selenium	98	100	80-120	2	0-20	
Vanadium	103	105	80-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A

Work Order No: 06-03-0266

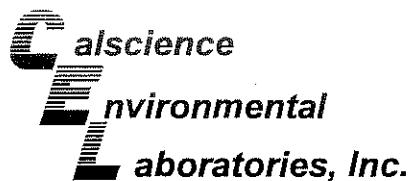
Project: CHP SANTA ROSA

Matrix: Aqueous

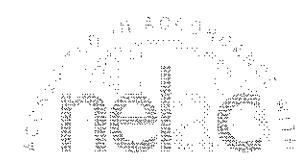
Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Bromide	EPA 300.0	099-05-118-3,238	N/A	03/04/06	103	105	85-115	2	0-7	

RPD - Relative Percent Difference , CL - Control Limit

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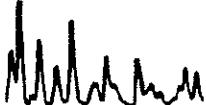


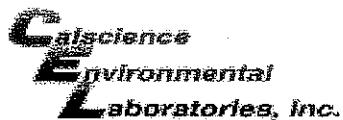
Glossary of Terms and Qualifiers



Work Order Number: 06-03-0266

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





WORK ORDER #:

06 - 3 - 2 6 Cooler 1 of 1**SAMPLE RECEIPT FORM**CLIENT: KiffDATE: 3/4/06**TEMPERATURE – SAMPLES RECEIVED BY:****CALSCIENCE COURIER:**

- Chilled, cooler with temperature blank provided.
 Chilled, cooler without temperature blank.
 Chilled and placed in cooler with wet ice.
 Ambient and placed in cooler with wet ice.
 Ambient temperature.
 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- °C Temperature blank.
32 °C IR thermometer.
 Ambient temperature.

Initial: TC**CUSTODY SEAL INTACT:**

Sample(s): _____ Cooler: No (Not Intact) : _____ Not Applicable (N/A): _____
 Initial: TC

SAMPLE CONDITION:

- | | Yes | No | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| Chain-Of-Custody document(s) received with samples..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container label(s) consistent with custody papers..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Correct containers for analyses requested..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper preservation noted on sample label(s)..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| VOA vial(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Initial: TC**COMMENTS:**

BSK ANALYTICAL LABORATORIES

Christie Dumas
Kiff Analytical LLC
2795 Second Street Suite 300
Davis, CA 95616

BSK Submission #: 2006030498

BSK Sample ID #: 696737

Project ID: 58281

Project Desc: CHP Santa Rosa

Submission Comments: Geo ID T0609700348, Sampler ID KFSR.

Sample Type: Liquid

Report Issue Date: 03/21/2006

Sample Description: MW-2

Date Sampled: 03/03/2006

Sample Comments:

Time Sampled: 1130

Date Received: 03/07/2006



Certificate of Analysis

NELAP Certificate #04227CA

ELAP Certificate #1180

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Bromate (BrO ₃)	EPA 317.0	ND	mg/L	0.005	1	0.005	03/18/06	03/18/06

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
μg/L: Micrograms/Liter (ppb)
μg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting
: PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory.
See External Laboratory Report attachments.

Report Authentication Code:

* 6 9 6 7 3 7 - O . O O O *

Page 1 of 2

BSK ANALYTICAL LABORATORIES

Christie Dumas
Kiff Analytical LLC
2795 Second Street Suite 300
Davis, CA 95616

BSK Submission #: 2006030498

BSK Sample ID #: 696738

Project ID: 58281

Project Desc: CHP Santa Rosa

Submission Comments: Geo ID T0609700348, Sampler ID KFSR

Sample Type: Liquid

Report Issue Date: 03/21/2006

Sample Description: MW-5

Date Sampled: 03/03/2006

Sample Comments:

Time Sampled: 1030

Date Received: 03/07/2006



Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Bromate (BrO3)	EPA 317.0	ND	mg/L	0.005	1	0.005	03/18/06	03/18/06

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
μg/L: Micrograms/Liter (ppb)
μg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting
: PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory.
See External Laboratory Report attachments.

Report Authentication Code:

* 6 9 6 7 3 8 - 0 . 0 0 0 *

Page 2 of 2

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

March 17, 2006

**CLS Work Order #: CPC0173
COC #: 48708**

Ryan Padgett
KIFF Analytical
2795 Second St. Suite 300
Davis, CA 95616

Project Name: CHP SANTA ROSA

Enclosed are the results of analyses for samples received by the laboratory on 03/03/06 16:51.
Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved
methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

03/17/06 11:01

KIFF Analytical
2795 Second St. Suite 300
Davis, CA 95616

Project: CHP SANTA ROSA
Project Number: 58281
Project Manager: Ryan Padgett

CLS Work Order #: CPC0173
COC #: 48708

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (CPC0173-01) Water Sampled: 03/03/06 11:30 Received: 03/03/06 16:51									
Hexavalent Chromium	ND	1.0	µg/L	1	CP01598	03/03/06	03/03/06	EPA 7199	
MW-5 (CPC0173-02) Water Sampled: 03/03/06 10:30 Received: 03/03/06 16:51									
Hexavalent Chromium	ND	1.0	µg/L	1	CP01598	03/03/06	03/03/06	EPA 7199	

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com 916-638-7301 Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

03/17/06 11:01

KIFF Analytical
2795 Second St. Suite 300
Davis, CA 95616

Project: CHP SANTA ROSA
Project Number: 58281
Project Manager: Ryan Padgett

CLS Work Order #: CPC0173
COC #: 48708

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Appendix C

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Calif. Hwy. Patrol (frmr) - T0609700348
 3854 SANTA ROSA AVE
 SANTA ROSA, CA 95402

* DENOTES THAT A SUBMITTAL HAS BEEN AUTO-RECEIVED

EDF SUBMITTALS

CONF NUM	TITLE	QUARTER	SUBMITTED BY	SUBMIT DATE	STATUS	VIEW SUBMITTAL	DELETE SUBMITTAL	QC REPORT
7523376405	FIRST QUARTER 2006 PART 1 OF 8	Q1 2006	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL	QC REPORT
5667600512	FIRST QUARTER 2006 PART 2 OF 8	Q1 2006	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL	QC REPORT
3052448332	FIRST QUARTER 2006 PART 3 OF 8	Q1 2006	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL	QC REPORT
3107911586	FIRST QUARTER 2006 PART 4 OF 8	Q1 2006	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL	QC REPORT
7651223361	FIRST QUARTER 2006 PART 5 OF 8	Q1 2006	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL	QC REPORT
1218568921	FIRST QUARTER 2006 PART 6 OF 8	Q1 2006	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL	QC REPORT
4395057022	FIRST QUARTER 2006 PART 7 OF 8	Q1 2006	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL	QC REPORT
2094733953	FIRST QUARTER 2006 PART 8 OF 8	Q1 2006	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL	QC REPORT

GEO_XY SUBMITTALS

NO GEO_XY SUBMITTALS FOR THIS FACILITY.

GEO_Z SUBMITTALS

NO GEO_Z SUBMITTALS FOR THIS FACILITY.

GEO_WELL SUBMITTALS

CONF NUM	TITLE	SUBMITTED BY	SUBMIT DATE	STATUS	VIEW SUBMITTAL	DELETE SUBMITTAL
6774047672	FIRST QUARTER 2006	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL

GEO_MAP SUBMITTALS

CONF NUM	TITLE	SUBMITTED BY	SUBMIT	STATUS

			<u>DATE</u>			
5207534611	GEO_MAP	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL
9479215860	GEO_MAP	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL

GEO_BORE SUBMITTALS

CONF NUM	TITLE	SUBMITTED BY	SUBMIT DATE	STATUS		
9239439249	GEO_BORE	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL
8453600823	GEO_BORE	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL
5805602848	GEO_BORE	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL
6218335807	GEO_BORE	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL
1957934319	GEO_BORE	STEVEN C. DALTON	4/5/2006	PENDING	VIEW SUBMITTAL	DELETE SUBMITTAL

GEO_REPORT SUBMITTALS

NO GEO_REPORT SUBMITTALS FOR THIS FACILITY.

NAME CHANGE SUBMITTALS

NO NAME CHANGE SUBMITTALS FOR THIS FACILITY.

DUPLICATE FACILITY SUBMITTALS

NO DUPLICATE FACILITY SUBMITTALS FOR THIS FACILITY.

Logged in as KAGEO (AUTH_RP)

CONTACT SITE ADMINISTRATOR.